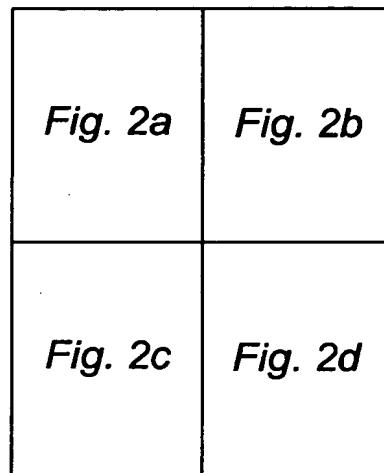




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NOVEL PTP-20, PCP-2, BDP1, CLK,  
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Atty. Dkt. No. 034536-1481  
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*Fig. 1*

O I P E  
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1 GAATTCCGCACGAGCGGGCTGGACCTTGCTCCCGGGCCATGAGCCGCACTGGACTCGG  
1 M S R S L D S  
121 CGCCGGCGAGTTCAAGCAGACATCCAGGCCCTGCTCGGCCGCCCTGGAAGGCTGACGGGTGTGCTCCA  
26 A G E F S D I Q A C S A A H K A D G V C S  
241 GCCTTATGATCAGACCCGAGTAATCTCTCCCTGCTCCAGGAAGAGGGACACAGGGACTACATTA  
66 P Y D Q T R V I L S L L Q E E G H S D Y I  
361 ACCCTTGCTCACACCCCTGCTAGACTCTGGAGACTGGTCTGGAGTTGGGTCAAGGTGATOC  
106 P L P H T L L D F W R L V W E F G V K V I  
481 CCAGGAGCAGGAGGCCACTGCAGACTGGCTTTCTGCATCACTCTGATAAAAGSAGAAGTGGCTGA  
146 Q E Q E P L Q T G L F C I T L I K E K W L  
601 TGTGTACCAAGCTACAGTATATGTCTGGCCAGACCGTGGGTCCCCAGCAGTCTGACCATG  
186 V Y Q L Q Y M S W P D R G V P S S P D H M  
721 TGTCCACTGCACTGCGGGTTGTGGCGAACAGGCGTCTGTGACCGTGGATTATGAGGAGC  
226 V H C S A G C G R T G V L C T V D Y V R Q  
841 GATGAGGAAGCAGCGCCCTGCGCGGTGCAGACAGAGGAGCAGTACAGGTTCTGACACACGG  
266 M R K Q R P A A V Q T E E Q Y R F L Y H T  
961 CAAAGAGAATTGTGCCCCACTCTAACGACGATGCCCTTCTCGGACTCCCCAGGACTTCTG  
306 K E N C A P L Y D D A L F L R T P Q A L L  
1081 GGGCCACGOCATGGCTGACACGCTADCGGAGGAACAGAAGCGGGGGCTCCAGGGCGCCGG  
346 G H A M A D T Y A E E Q K R G A P A G A G  
1201 CTACAGCAAGGTGACCGCGCGGCCAGCGACCCGGGCGACGCGGAGGAGCGAGGGAC  
386 Y S K V T P R A Q R P G A H A E D A R G T  
1321 CGTGGCGGGTGGAGCTCAGACCGGTGGCTAGGTTCAACCTGCGCATGGAGGCCGAAGGGTC  
426 V A G G A Q T G G L G F N L R I G R P K G  
1441 TGTGCGCTCTTGAGCTGGACTGCTGATGCGCCGGTGCCTGAGCGCCGTGCGAGAAATGGA  
1561 TGCCCAATGACTGTAGCATTCAGGCTTGAGGCTGGAGGAGGTAGCTAGGGTATAGTGGCTGGTG  
1681 TTATGAAGGGAGAAGGGACAGATGAGCTTCCGGAGACTGCTCTGCTACCCACACAGCACTAGTC  
1801 GTGGATGACACTTGGCATTCAGGCGAGAACTAACGCGGATAACCACAGCCAAGCAGAATTAAAC  
1921 AACCTGGACAGACAGCCAAGCTTCAGAGATACAGTCCACAGGTGGACAGCGAGGTGGACCCCTAAGTTAG  
2041 AAACACAGCCCCAAAAGACAGACATCTCTGCTAGCTGGACAGCGAGGTGGACCCCTAAGTTAG  
2161 TCAGACCCACTCCCTCAGGTGGCTGGCTGGCTGACAGACCTTCTGGCAGACAGACTCCTAAC

Fig. 2a



CGCGAGCTTCTGGAGCGGCTGGAAGCGGGGGCGGGGGAGGGGGAGTCCT	120
A R S F L E R L E A R G G R E G A V L	26
CCGTGGCCGGCAGTCGGCCAGAGAAAGTGGAGGAAGAACCGCTACAAAGACGTGCT	240
T V A G S R P E N V R K N R Y K D V L	66
ATGGCAACTTCATCGGGGCGTGGATGGAAGCCTGGCTACATTGCCAGCAAGG	360
N G N F I R G V D G S L A Y I A T Q G	105
TGATGGCCTGTCGAGAGATAGAGAATGGCGGAAAGGTGTGAGCGGTACTGGC	480
L H A C R E I E N G R K R C E R Y W A	146
ATGAGGACATCATGCTCAGGACCCCTCAAGGTACATTCAGAAGGAGTCCCGTTC	600
N E D I M L R T L K V T F Q K E S R S	186
TGCCATGGTGGAGGAAGCCCGTCGCGCTCCAGGGATCTGGCGCTGAACCCCTCTG	720
L A M V E E A R R L Q G S G P E P L C	226
TGCTCCTGACCCAGATGATCCCACCTGACTTCAGTCAGTCCTTGTGCTGCTTAA	840
L L L T Q M I P P D F S L F D V V L K	266
TGGCTCAGATGTTCTGCTCCACACTCCAGAATGCCAGCCCCACTAACAGAACAT	960
V A Q M F C S T L Q N A S P H Y Q N I	306
CCATACCCCGCCACCAGGGGGGCTCTCAGGAGCATCTCTGTGCGCGGGTCCCC	1080
A I P R P P G G V L R S I S V P G S P	346
GTGGGACGCAACGGGAACGGGGACGGGGCGCGAGGGGGAGGAGGCGCGCT	1200
S G T Q T G T G A R S A E E A P L	386
TGCTGGCGCGTCTGCTGAGGGACCCGGGTGTAAGTCTAACGCCAGTTCTGCC	1320
L P G R V P A D Q S P A G S G A Y E D	426
CCGGGACCCGCCCTGCTGAGGGACCCGGGTGTAAGTCTAACGCCAGTTCTGCC	1440
P R D P P A E W T R V *	459
AACAGTGGGCTGGATCAAAGTTAAAGTTCTCAGGGTGGGAATGTGGGGCTT	1560
AGGCTCACAGAGCAGATTCAAGAAAGAACATCAGGAAGGGGATGACCCCTGAG	1680
CATCCCTCAGCACTTGAGCTCCCTCACTTGGACACTCAGGGGACACACAGAGAA	1800
CCCAGGCAGACCBATAAAAAGACCTCCAGATAGGCAGACAGACAGATGGACCA	1920
GAGAGAGAGAGACCAACAGCTTGATAGACCGAGTGCAGCCAGAGAGACCA	2040
TCAGATTACTAGACAGATATAACAGATCCCTGCTAACAGATATAACAGAGTT	2160
CAACCAAGATGGACTGCCAGACAGGAGACATCAGTCACATGGAAATCCTGACATC	2280

*Fig. 2b*



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2281 CCAGCCAGCGGCCAGACTCTCATCTTGATGCTTGATGGATGGACCCAGCTAGTCAGACATGA  
2401 ACAGATGGAGCCCCAGCAAATCAGGACCTATCTAGGCAGACCCAGCCAGACCCCGCCAGACAG  
2521 TACAGGTCTAA|||||||||AGAATGAGTTTTGCCATGTTGCCAGACTGGTCTTGA  
2541 GGTGTGAGCCACCAAGGCTCAGCCCCCTAAGATTGAAACACTTTAAATGCCCCATGGTAGGGTTC  
2761 CTGTGCAAA

*Fig. 2c*

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TCCTCCAGATTGACAGACAAGTOCCCCAAATGAGTACACATCTCCAGCTATTCA  
ACTCCCCAACCAAGACTGACCCCTTGCTGTTCACACAGCCTGCCGAGTAGCTGGGAC  
ACTCCCCAACCTCAAGCAATCCTOCTGCCTCAGCCTCCAAAGTGCTGAGATTACA  
CTGCTAGGATAAAACATTAAAGTGGCTGTTAAAAGAAAATAAAAGGAAGGACAOGTCT  
2400  
2520  
2640  
2760  
2810

*Fig. 2d*